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The Elements of Physics. By HENRY S. CARHART and HORATIO N. CHUTE. pp. 382. Allyn & Bacon.

The *Elements of Physics* is intended as a text-book for classes in high schools, or schools of a similar grade, where the mathematical preparation of the student is of the most elementary character. For this reason the subject has been presented in such form that only the simplest ideas of geometry and algebra are required, while the only mention of a trigonometric function occurs in the discussion of the tangent galvanometer. The difficulties that are met with in preparing a satisfactory text-book under these restrictions are obvious. In some respects it would be easier to write an elaborate treatise. The authors have been unusually successful, however, in avoiding the faults which are too often met with in books of this class. The statements and explanations are, in general, brief but clear. In no case has accuracy been sacrificed for apparent simplicity. Although not free from faults, the book cannot fail to be of assistance in raising the standard of elementary teaching.

Of the different branches of physics that are discussed, the treatment will strike the reader as least satisfactory in the case of electricity and magnetism, although it is difficult to tell just where the fault lies. It is to be remembered, however, that the subject of electricity is probably the most difficult in physics to present in an elementary manner. The omission of all mention of double refraction and polarization in the section on light seems unfortunate. It is doubtless intentional, and probably results from the experience of the authors in the difficulty of teaching these subjects to an elementary class. I cannot help thinking, however, that a few well-written pages devoted to the simpler phenomena of polarization would add to the value of the book. The numerous illustrative experiments that are described throughout the book will doubtless prove of considerable value to teachers. These experiments are, in most cases, so simple that they could be performed in the class-room, or by the student alone. The illustration of physical laws by reference to the familiar facts of everyday life is also deserving of mention, the sections on heat and sound being in this respect especially satisfactory.

—*From review by Ernest Merriitt in the Physical Review, July-August, 1893.*

Advanced Arithmetic. Inductive Business Course, with a Suggestive Outline for Teachers, by WM. M. PECK. pp. 250. A. Lovell & Co., N. Y.

This book furnishes material for a four years' course, beginning with the fifth school year, following the author's *Primary Lessons in Number*, which covers the first four years.

The subjects dealt with include only those directly connected with ordinary business transactions. It embraces only the